Kim A. Cabello

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of Richard Gallo et al. Group Art Unit: To Be Assigned Application No.: 10/575.537 Examiner: To Be Assigned Filed: April 11, 2006 Confirmation No.: Certificate of Mailing For: HUMAN CATHELICIDIN ANTIMICROBIAL PEPTIDES

I hereby certify that this paper is being deposited with I nerroy centry that this paper is being deposited with the Unitied States Postal Service via Express Mail Post Office to Addressee under 37 C.F.R. §1.10 on May 3, 2008 in an envelope addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

FIRST INFORMATION DISCLOSURE STATEMENT

MAIL STOP PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. However, copies of the listed U.S. patents and U.S. patent application publications are not enclosed since it is no longer required according to the July 11, 2003 waiver of the requirement for copies of cited U.S. patents and U.S. patent application publications in national patent applications filed after June 30, 2003 and international applications entering the national stage under 35 U.S.C. § 371 after June 30, 2003.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

Buchanan Ingersoll PC

FIRST Information Disclosure Statement
Application No. 10/575,537
Attorney's Docket No. 1034123-000219
Page 2

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BUCHANAN INGERSOLL PC

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Date May 3, 2006

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Buchanan Ingersoll PC

Including attorneys from Burus Douge Swecker & Matth

beliber for from \$440APTO A \$440BPTO Complete If Known Application Number FIRST 10/575.537 MFORMATION DISCLOSURE Filing Date April 11, 2006 Statement by applicant First Named Inventor Gallo et al. Examiner Name as many sheets as necessary) Sheet 1 of Attorney Docket Number 1034123-000219

ILC BAYENT DOCUMENTS

Examiner Initials	Document Number	(if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYY)
	4,482,680		Sheldon	11-13-1/84
	5,618,675		Larrick	04/08/1997
	6,040,291		Hirata	03/2/1/2000
	2003/0022829	A1	Maury	03/30/2003
			N	

FOREIGR PATENT DOCUMENTS

						STATUS						
Examiner Initials	Document Number	Kind Code (if known)		Country	Date of Publication (MWA-DD-YYYY)	Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
	WO 02/13857		WIPO									
	WO 02/060468	A2	WIPO		08/08/2002							
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NON-PATERT LITERATURE DOCUMENTS

Examinar Include name of the author (in CAPITAL LETTERS), little of the article whon appropriate), title of the little (book, magazine, journal, serial, symposium, catalog, sic.), dife, posqob, volume-saue number(s), public, city and country where published.

Benincasa, Monica et al., "In vitiry and in vivo antimicrobial activity of two alpha-helikal cathelicidin peptides and of their synthetic analogs," Peptides, Vol. 24, No. 11, pp. 1723-1731, November 2003.

Brasel, Kenneth et al., Hematologic Effects on RI3 Ligand in Vivo in Mice," Blood, Vol. 88, No. 6, pp. 2004-2012, 1998.

Clinical and Experimental Dermatology Vol. 21, No. 3, pp.185, Way 1996.

Gallo, Richard L. et al.," "Identification of CRAAMP a cathelin-related antimicriobial peptide explessed in the embryonic and adulymouse," J. Biol. Chem., vol. 272, No. 20, pp. 13088–93, May 18, 1997. Gennaro, Renato, et al., "Pro-rich antimicrobial peptides from animals: structure, biological functions and mechanism of aglion," Current Pharmaceutical Design, vol. 8, No. 9, pp. 763-78, 2002. Gennaro Rengfo et al., "Structural features and biological activities of the cathelicidin-derived antimicrobial peptides," Biopolymers, Vol. 55, No. 1, pp. 31-49, 2000.

Examiner Date

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Complete if Known				
Application Number	10/575,537			
Filing Date	April 11, 2006			
First Named Inventor	Gallo et al.			
Examiner Name				
Attorney Docket Number	1034123-000219			
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MON-PATENT LITERATURE DOCUMENTS

	MON-PATENT LITERATURE DOCUMENTS
Examiner Initials	Include name of the author (in CAPITAL LETTERS), titls of the stricts (when appropriate), titls of the item (book, magazine, journyl, serial, lympostum, catalog, etc.), date, page(s), volume-seue number(s), publisher, city endor country where published. Gennaro, Rehysto et al., "Biological characterization of a novel mammalian antimicrobial peptide," Biologifimica
	et Biophysica Asta, Vol. 1425, No. 2, pp. 361-8, October 23, 1998.
	Ha, Jong-Myung et al., "Synthesis and Antibiotic Activities of CRAMP, a Cathelin-related Antimicrofial Peptide and Its Frauments," Bull, Korean Chem, Soc., Vol. 20, No. 9, pp. 1073-1077, 1999.
	Howell, Michael D. et al., "Selective Killing of Vaccinla Virus by LL-37: Implications for Eczema Vaccinatum," Journal of Immunology, Vol. 172, pp. 1763-1767, 2004.
	Johnson, B.Connor, "Postranslational Covalent Modification of Proteins," Academic Press NY, pp. 1-12 1983.
	Kaufman, Randal et al., "Synthesis, Processing, and Secretion of Recombinant Humany-factor VIII Expressed in Mammalian Cells," Journal of Biological Chemistry Vol. 263, No. 13, pp /6352-6362, 1988.
	Kaufman, Randal, "Selection and Coamplification of Heterologous Genes in Mammalian Cells" Methods In Enzymology, Vol. 185 pp. 527-568, 1990.
	McKimon, P et al., "Expression, purification and characterization of secreted regionibinant human insulin-like growth factor -I (IGF-I) and the potenty-ariant des (1-3) IGF-I in Chinese hampier ovary cells" Journal Molecular Endocrinology 6, pp. 231-239, 1991.
	Merrifield, R.B "Solid Phase Peptide Synthesis" Journal. Am. Chem. Soc., Vol.85, pp. 2149, 1962.
	Ong, Peck et al., "Endogenous Antimicrobial Reptides And Skin Infections In Atopic Dermatitis," New England Journal of Medicine, Vol. 347, No. 15, pp. 1151-1160, October 10, 2002.
	Rattan, Suresh I. et al., "Protein Synthesis, Postitanslational Modifications, and Aging," Annals of the N.Y. Academy of Science, Vol. 663, pp.48-62 (1992).
	Sanchez et al., "Overexpression and structural study of the cathelicidin motif of the protegrin-3 precursor," Biochemistry, Vol. 41, No. 1, pp. 21-30, January 8, 2002.
	Scott, Jamie et al.," Searching for Peptide Ligands with an Pritope Library," Science Voll. 249, pp.386-390 (1990).
	Seifter, Sam et al., "Analysis for Protein Modifications and Manprotein Cofactors," Methods of Enzymology, Vol. 182, pp. 626-646,1990.
	Skerlavaj, Barbara et al., "Structural and functional analysis of therse cathelicidin peptides," Antimicrobial Agents Chemotherapy., Vol. 45, No. 3, pp. 715-22 March 2001.
	Smeianov, Vladimir et al. "Activity of cecropin Py and FA-LL-37 Against urogenital microflora" Microbes and Infection, Vol. 2, pp. 773-777, 2000.
	Smith, George, et al., "Libraries of Peptides and Proteins Displayed on Filamentous Phage," Wethods Enzymology, Vol. 217, pp. 228-257, 1993.
	Stewart, John, et al., "Solid Phase Peptides Synthesis," W.H. Freeman and Copmany, San Francisco, 1969, pp. 27-62.
	Tjabringa, G. Sandra et al., "The Antyficrobial Peptide LL-37 Activates Innate lymnunity at the Airway Epithelial Surface by Transactivation of the Epidermal Growth Factor Recaptor," Iournal of Immunology, Vol. 171, pp. 6690-6696, 2003.
	Urlaub, Gail et al., "Isolation of Chinese Hamster cell mutants deficient in dihydrofolate reductase activity," Proc Natl Acad Sci USA, Vol. 77, pp. 4216-4220, 1980.
	Wood, Clive et al.," High Level Synthesis Of Immunoglobulins In Chinese Hamster Ovaly Cells," The Journal of Immunology, Vo. 145, pp. 3011-3016, 1990.
	Zaiou, Mohamed et al., "Antimicrobial and Protease Inhibitory Functions of the Human Cathelicidin (InCAPIBILL-37) Prosequence," The Society for Investigative Dermatology, Vol. 120, No. 5, pp. 810-816, May 2003.
	Tanetti, Margherita et al., "Cathelicidin peptides as candidates for a novel class of antimicrobials," Current Pharmaceutical Design, Vol. 8, No. 9, pp. 779-93, 2002.
	Zanetti, Marghefita et al., "Structure and biology of cathelicidins," Adv. Exp. Med. Biol., Vol. 479, pp. 203- 218, 2000.

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		FIRST		Application Number	10/575,537		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	April 11, 2006		
				First Named Inventor	Gallo et al.		
	(use as ma	ny sheets as neo	essery)	Examiner Name			
Sheet	Sheet 3 of 3			Attorney Docket Number	1034123-000219		
			NON-PA	TENT LITERATURE DOCUMENTS			
Examiner				TTERS), title of the article (when appropri	riate), title of the item (book, magazine, journal		

Examiner Initials /AG/	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Zanetti et al., "The cathelicidin family of antimicrobial peptide precursors: a component of the oxygen- independent defense mechanisms of neutrophils," Annals N. Y. Academy of Scieces, Vol. 832, pp. 147-62,
	December 15, 1997.
	Zanetti et al. "Cathellcidin Peptides as Candidates for a Novel Class of Antimicrobials" Current
IAGI	Pharmaceutical Design, Vol. 8, No. 9, pp 779-793, 2002

Examiner | /ANISI GUDIA/ Date Considered | 03/18/2009

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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